EMERGENCY PROCEDURES

1986 Cessna 172P - N9443L

Air Plains 180 HP Conversion

Serial No. 17274010 and subsequent

Engine Failure During Takeoff Roll

1.	Throttle	Idle
2.	Brakes	Apply
3.	Flaps	Retract
	Mixture	
5.	Ignition Switch	Off

Engine Failure Immediately After Takeoff

1.	Airspeed	
	70 KIAS (Flap	s Up)
	65 KIAS (Flap	s Down)
2.	Mixture	Idle Cut O

2.	Mixture	Idle Cut Off
3.	Fuel Selector	Off
4.	Ignition	Off
5.	Wing Flaps	As Required

6. Master Switch Off

Engine Failure During Flight (Restart)

1.	Airspeed	75 KIAS
2.	Carb Heat.	On
3.	Fuel Selec	torBoth
4.	Mixture	Rich
5.	Ignition	Both
	(or START	if propeller is
	stopped)	
6	Primer	In & Locked

Forced Landing Without Engine Power

Precautionary Landing With Engine Power

1. Wing Flaps 20°
2. Airspeed65 KIAS
3. Select Field Perform
Fly Over Inspection
4. Radio & Electrical Switches . Off
5. Flaps 30° on Final Approach
6. Airspeed65 KIAS
7. Avionics & Master Switches. Off
8. DoorsUnlatched
Prior To Touchdown
9. TouchdownSlightly Tail Low

Engine Fire During Start

1. Con	tinue	Cranking	Engine
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2. If Engine Starts:.....Power 1700 RPM for a few minutes

10. Ignition Switch......Off

11. Brakes..... Apply Heavily

3. Engine Shutdown and Inspect

If Engine Fails to Start:

4.	Throttle	Full Open
5.	MixtureI	dle Cut Off

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6.	Cranking	C	Continue
	_		
7.	Fire Extinguisher		Obtain

8.	Master/Ignition/Fuel	Off

9.	Fire	Extinguish
10	. Fire Damage	Inspect

Engine Fire in Flight

1. Mixture		Idle Cut Of	
2.	Fuel Selector	Of	
3.	Master Switch	Of	
4.	Cabin Heat & Air	Of	
	(Except Overhead	Vents)	
_	Airopood	,	

- 6. Forced Landing w/o Engine Power Execute

Electrical Fire in Flight

- 1. Master Switch......Off (Leave Ignition On)
- 2. All Other Switches (Except Ignition)Off
- 3. Vents/Cabin Air/Heat . Closed
- 4. Fire Extinguisher Activate

Warning

After discharging an extinguisher within a closed cabin, ventilate the cabin.

If fire is extinguished & electrical power is necessary

- 5. Master Switch On
- 6. Circuit Breakers Check for Faulty circuit (Do Not Reset)
- 7. Radio/Electrical Switches on one at a time w/ delay after each to locate short.

8. Vent cabin when assured fire is extinguished

Cabin Fire

- 1. Master Switch...... Off (Leave Ignition On)
- 2. Vents/Cabin Air/Heat . Closed
- 3. Fire Extinguisher..... Activate

Warning
After discharging an
extinguisher within a closed
cabin, ventilate the cabin.

4. Land .. As soon as possible and inspect damage

Wing Fire

 Navigation Lights Strobe Lights 	
4 Landing/Tayi Lights	Off

Sideslip to keep flames away from the fuel tank and cabin, and land as soon as possible using flaps only as required for final approach and touchdown.

Note



Icing

- 1. Pitot HeatOn
- 2. Turn back or change altitude to obtain an outside air temp that is less conducive to icing.
- Pull cabin heat control to full out and open defroster outlet to obtain maximum windshield defroster airflow.
- Open the throttle to increase engine speed and minimize ice build-up on propeller blades
- 5. Watch for signs of carburetor air filter ice and apply carburetor heat as required. An unexplained loss in engine speed could be caused by carburetor ice or air intake filter ice. Lean the mixture if carb heat is used continuously.
- Plan a landing at the nearest airport. With an extremely rapid ice build-up, select a suitable "off airport" landing site.
- 7. With ice accumulation of ¼ inch or more on the wing leading edges, be prepared for significantly higher stall speed.
- 8. Leave wing flaps retracted. With a severe ice build-up on the horizontal tail, the change in wing wake airflow direction caused by wing flap extension could result in a loss of elevator effectiveness.
- 9. Open left window and if practical scrape ice from a portion of the windshield for visibility in landing approach.

- Perform landing approach using a forward slip, if necessary, for improved visibility.
- 11. Approach at 80 to 90 KIAS depending upon the amount of accumulation.
- 12. Perform a landing in level attitude.

Ditching

- 1. Radio....... Transmit Mayday on 121.5 giving location and intentions and squawk 7700.
- 2. Heavy Objects..... Secure or Jettison.
- 3. Flaps 20° to 30°
- 4. Power..... Est. a 300 FPM descent at 55 KIAS.
- Approach
 High winds, heavy seas Into
 the Wind.
 Light winds, heavy swells.........
 Parallel to swells.

Note

If no power is available, approach at 70 KIAS with flaps up or at 65 KIAS with 10° flaps.

- 6. Cabin DoorsUnlatch
- 7. Touchdown...... Level attitude at established descent rate.
- 8. Face Cushion at touchdown with folded coat or seat cushion.
- AirplaneEvacuate through Cabin doors. If necessary, open window and flood cabin to equalize pressure so doors can be opened.
- 10. Life vests and raft Inflate

For all other Emergency Abnormal Procedures.
See the POH Section 3.

Airspeeds for Emergency Operations

Engine Failure After Takeoff:

Wing Flaps Up -- 70 KIAS Wing Flaps Down -- 65 KIAS

Maneuvering Speed:

2550 Lbs – 105 KIAS 2150 Lbs – 95 KIAS 1750 Lbs – 85 KIAS

Maximum Glide:

2550 Lbs – 65 KIAS 2150 Lbs – 62 KIAS 1750 Lbs – 56 KIAS

Precautionary Landing With Engine Power – 65 KIAS

Landing Without Engine Power: Wing Flaps Up – 70 KIAS

Wing Flaps Down – 65 KIAS

This checklist is a guide to coordinate Pilot Operating Handbook and STC data applicable to this particular aircraft only. The applicable Pilot Operating Handbook and STC installations remain the official documentation for this aircraft.

The pilot in command is responsible for complying with all items in the Pilot Operating Handbook and applicable STCs.

I certify this checklist has been reviewed for accuracy.

Wing Director of Maintenance

Date